

### REMARKS

Applicant respectfully requests further examination and reconsideration in view of the above amendments. Claims 1-30 remain pending in the case. Claims 1-30 are rejected. Claims 1, 3, 8-11, 13, 18-21, 23 and 28-30 are amended herein. No new matter has been added.

### 35 U.S.C. §102(e)

Claims 1-3, 7-13 and 17-20 stand rejected under 35 U.S.C. §102(e) as being anticipated by United States Patent 6,363,245 by Natori, hereinafter referred to as the "Natori" reference. Applicant has reviewed the cited reference and respectfully submits that the embodiments of the present invention as recited in Claims 1-3, 7-13 and 17-20 are not anticipated by Natori in view of the following rationale.

Applicant respectfully directs the Examiner to independent Claim 1 that recites that an embodiment of the present invention is directed to (emphasis added):

A method of indicating reception performance of a wireless signal at a radio frequency peripheral component card of a computer system, said method comprising:  
receiving said wireless signal at a wireless receiver of said radio frequency peripheral component card;  
demodulating said wireless signal;  
determining an error rate of a digital data portion of said wireless signal; and

indicating a quality level of reception of said wireless signal at said radio frequency peripheral component card based on said error rate.

Independent Claim 11 recites similar limitations. Claims 2, 3 and 7-10 that depend from independent Claim 1 and Claims 12, 13 and 17-20 that depend from independent Claim 11 provide further recitations of the features of the present invention.

Natori and the claimed invention are very different. Applicant understands Natori to teach a portable communication terminal for judging the reception situation. In particular, Natori teaches that the portable communication terminal is a portable telephone terminal for carrying out radio communication (col. 1, lines 8-10).

Embodiments of the claimed invention are directed towards “[a] method of indicating reception performance of a wireless signal at a radio frequency peripheral component card of a computer system” including “receiving said wireless signal at a wireless receiver of said radio frequency peripheral component card” and “indicating a quality level of reception of said wireless signal at said radio frequency peripheral component card based on said error rate,” as claimed (emphasis added). In particular, the claimed embodiments recite the limitation of a radio frequency peripheral component card. With reference to Figure 2a of the present application, communication device 200a

is shown, wherein communication device 200a is a radio frequency peripheral component card, capable of being installed in an expansion slot of a personal computer (page 11, lines 22-24).

Moreover, communication device 200a includes antennae 203 and transceiver 208 (e.g., a receiver) for receiving wireless communications (page 12, lines 18-20 and page 13, lines 8-10). In other words, a wireless signal is received directly at the radio frequency peripheral component card over antennae 203 and transceiver 208. Furthermore, communication device 200a includes indicator 205 for providing an indication of the reception performance of a wireless signal (page 13, lines 12-19). In other words, the reception performance is indicated directly at the radio frequency peripheral component card using indicator 205.

Applicant respectfully asserts that Natori in particular does not teach, disclose, or suggest the method as claimed. In contrast, Natori discloses a portable telephone terminal for displaying a reception level on a display panel of the portable telephone terminal. With reference to Figure 3 of Natori, portable telephone terminal 10 is shown. Portable telephone terminal 10 may be connected to information processing terminal 1 over connecting cable 2. Card 2b of connecting cable 2 is used to connect portable telephone terminal 10 to information processing terminal 1, where card 2b may be a PCMCIA card. However, the wireless signal is not received at card 2b, and the reception level

is not indicated at card 2b. In contrast, the wireless signal is received at an antenna of portable telephone terminal 10 and the reception level is displayed at display panel 36 of portable telephone terminal 10.

Therefore, Applicant respectfully asserts that nowhere does Natori teach, disclose or suggest the claimed embodiments of the present invention as recited in independent Claims 1 and 11, and that these claims are thus in a condition for allowance. Applicant respectfully submits the Natori also does not teach or suggest the additional claimed features of the present invention as recited in Claims 2, 3 and 7-10 which depend from independent Claim 1 and Claims 12, 13 and 17-20 which depend from independent Claim 11. Therefore, Applicant respectfully submits that Claims 2, 3, 7-10, 12, 13 and 17-20 overcome the rejection under 35 U.S.C. § 102(e), and are in a condition for allowance as being dependent on an allowable base claim.

35 U.S.C. §103(a)

Claims 4-6 and 14-16 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Natori in view of United States Patent 6,622,018 by Erikson, hereinafter referred to as the "Erikson" reference. Claims 4-6 depend on independent Claim 1 and Claims 14-16 depend on independent Claim 11. Applicant has reviewed the cited reference and respectfully submits that the embodiments of the present invention as recited in Claims 4-6 and 14-16 are

not rendered obvious by the combination of Natori in view of Erikson for the following rationale.

The combination of Natori and Erikson does not teach a method of indicating reception performance of a wireless signal at a radio frequency peripheral component card of a computer system including “receiving said wireless signal at a wireless receiver of said radio frequency peripheral component card” and “indicating a quality level of reception of said wireless signal at said radio frequency peripheral component card based on said error rate,” as claimed (emphasis added). For instance, Natori and the claimed invention are very different. As described above, Applicant understands Natori to teach a portable telephone terminal for receiving wireless signals and displaying a reception level on a display panel of the portable telephone terminal. Therefore, Applicant respectfully asserts that Natori does not teach, disclose, or suggest a method of indicating reception performance of a wireless signal at a radio frequency peripheral component card of a computer system, as claimed.

Moreover, the combination of Natori and Erikson fails to teach or suggest this claim limitation because Erikson does not overcome the shortcomings of Natori. Applicant understands Erikson to teach a portable device control console with a wireless connection. In particular, Erikson does not teach, describe, or suggest the use of a radio frequency peripheral

component card of a computer system for wireless transmission as claimed. In particular, Erekson does not teach, describe or suggest receiving a wireless signal at a receiver of a radio frequency peripheral component card and indicating a quality level of reception of the wireless signal at the radio frequency peripheral component card, as claimed. Therefore, Applicant respectfully asserts that Erekson does not teach, disclose, or suggest a method of indicating reception performance of a wireless signal at a radio frequency peripheral component card of a computer system.

Applicant respectfully asserts that nowhere does the combination of Natori and Erekson teach, disclose or suggest the present invention as recited in independent Claims 1 and 11, and that these claims are thus in condition for allowance. Applicant respectfully submits the combination of Natori and Erekson also does not teach or suggest the additional claimed features of the embodiment of the present invention as recited in Claims 4-6 dependant on allowable base Claim 1 and Claims 14-16 dependant on allowable base Claim 11. Therefore, Applicant respectfully submits that Claims 4-6 and 14-16 overcome the rejection under 35 U.S.C. § 103(a), and that these claims are thus in a condition for allowance.

Claims 21-23 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Natori in view of United States Patent 6,560,443 by Vaisanen et al., hereinafter referred to as the "Vaisanen" reference. Applicant has

reviewed the cited reference and respectfully submits that the embodiments of the present invention as recited in Claims 21-23 are not rendered obvious by the combination of Natori in view of Vaisanen for the following rationale.

Applicant respectfully directs the Examiner to independent Claim 21 that recites that an embodiment of the present invention is directed to (emphasis added):

A computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, said method comprising:  
receiving said wireless signal at a wireless receiver of said radio frequency peripheral component card;  
demodulating said wireless signal;  
determining an error rate of a digital data portion of said wireless signal; and  
indicating a quality level of reception of said wireless signal at said radio frequency peripheral component card based on said error rate.

Claims 22 and 23 that depend from independent Claim 21 provides a further recitation of the features of the present invention.

The combination of Natori and Vaisanen does not teach a computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, in which the method includes

“receiving said wireless signal at a wireless receiver of said radio frequency peripheral component card” and “indicating a quality level of reception of said wireless signal at said radio frequency peripheral component card based on said error rate,” as claimed (emphasis added). For instance, Natori and the claimed invention are very different. As described above, Applicant understands Natori to teach a portable telephone terminal for receiving wireless signals and displaying a reception level on a display panel of the portable telephone terminal. Therefore, Applicant respectfully asserts that Natori does not teach, disclose, or suggest a computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, as claimed.

Moreover, the combination of Natori and Vaisanen fails to teach or suggest this claim limitation because Vaisanen does not overcome the shortcomings of Natori. Applicant understands Vaisanen to teach antenna switching sharing circuitry. In particular, Vaisanen does not teach, describe, or suggest the use of a radio frequency peripheral component card of a computer system for wireless transmission as claimed. In particular, Vaisanen does not teach, describe or suggest receiving a wireless signal at a receiver of a radio frequency peripheral component card and indicating a quality level of reception of the wireless signal at the radio frequency peripheral component card, as claimed. Therefore, Applicant respectfully asserts that Vaisanen does not



teach, disclose, or suggest the computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, as claimed.

Applicant respectfully asserts that nowhere does the combination of Natori and Vaisanen teach, disclose or suggest the present invention as recited in independent Claim 21, and that this claim is thus in condition for allowance. Applicant respectfully submits the combination of Natori and Vaisanen also does not teach or suggest the additional claimed features of the embodiment of the present invention as recited in Claims 22 and 23 dependant on allowable base Claim 21. Therefore, Applicant respectfully submits that Claims 22 and 23 overcome the rejection under 35 U.S.C. § 103(a), and that these claims are thus in a condition for allowance.

Claims 24-30 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Natori in view of Vaisanen, and yet further in view of Erikson. Claims 24-30 depend on independent Claim 21. Applicant has reviewed the cited reference and respectfully submits that the embodiments of the present invention as recited in Claims 24-30 are not rendered obvious by the combination of Natori in view of Vaisanen, and yet further in view of Erikson for the following rationale.

The combination of Natori, Vaisanen and Erekson does not teach a computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, in which the method includes “receiving said wireless signal at a wireless receiver of said radio frequency peripheral component card” and “indicating a quality level of reception of said wireless signal at said radio frequency peripheral component card based on said error rate,” as claimed (emphasis added). For instance, Natori and the claimed invention are very different. As described above, Applicant understands Natori to teach a portable telephone terminal for receiving wireless signals and displaying a reception level on a display panel of the portable telephone terminal. Therefore, Applicant respectfully asserts that Natori does not teach, disclose, or suggest a computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, as claimed.

Moreover, the combination of Natori and Vaisanen fails to teach or suggest this claim limitation because Vaisanen does not overcome the shortcomings of Natori. Applicant understands Vaisanen to teach antenna switching sharing circuitry. In particular, Vaisanen does not teach, describe, or suggest the use of a radio frequency peripheral component card of a computer system for wireless transmission as claimed. In particular, Vaisanen does not

teach, describe or suggest receiving a wireless signal at a receiver of a radio frequency peripheral component card and indicating a quality level of reception of the wireless signal at the radio frequency peripheral component card, as claimed. Therefore, Applicant respectfully asserts that the combination of Natori and Vaisanen does not teach, disclose, or suggest the computer readable medium containing therein computer readable codes for causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, as claimed.

Moreover, the combination of Natori, Vaisanen and Erikson fails to teach or suggest this claim limitation because Erikson does not overcome the shortcomings of the combination of Natori and Vaisanen. Applicant understands Erikson to teach a portable device control console with a wireless connection. In particular, Erikson does not teach, describe, or suggest the use of a radio frequency peripheral component card of a computer system for wireless transmission as claimed. In particular, Erikson does not teach, describe or suggest receiving a wireless signal at a receiver of a radio frequency peripheral component card and indicating a quality level of reception of the wireless signal at the radio frequency peripheral component card, as claimed. Therefore, Applicant respectfully asserts that the combination of Natori, Vaisanen and Erikson does not teach, disclose, or suggest the computer readable medium containing therein computer readable codes for

causing a radio frequency peripheral component card of a computer system to implement a method of managing multipath signals, as claimed.

Applicant respectfully asserts that nowhere does the combination of Natori, Vaisanen and Erikson teach, disclose or suggest the present invention as recited in independent Claim 21, and that this claim is thus in condition for allowance. Applicant respectfully submits the combination of Natori, Vaisanen and Erikson also does not teach or suggest the additional claimed features of the embodiment of the present invention as recited in Claims 24-30 dependant on allowable base Claim 21. Therefore, Applicant respectfully submits that Claims 24-30 overcome the rejection under 35 U.S.C. § 103(a), and that these claims are thus in a condition for allowance.

### CONCLUSION

In light of the above remarks, Applicant respectfully requests reconsideration of the rejected claims. Based on the arguments presented above, Applicant respectfully asserts that Claims 1-30 overcome the rejections of record and, therefore, Applicant respectfully solicits allowance of these Claims.

The Examiner is invited to contact Applicant's undersigned representative if the Examiner believes such action would expedite resolution of the present Application.

Respectfully submitted,

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